

Split - 1

Work Order ID 60414 - 1

July 7, 2010 11:12:54 AM



Page 1

Item ID: D350-561-141

Accept



Setup Start



Revision ID:

Stop



Item Name: Single Cargo Mirror Assembly

Start Date: 7/07/10 Start Qty: 2.00



Cust Item ID:

Required Date: 7/14/10 Req'd Qty: 2.00



Customer:

Reference:

Approvals: Process Plan: C2 Date: 10/7/10

Tooling:

Date:

Run Start



QC: _____ Date: _____

SPC (Y/N): _____

Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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N/A	Rev N/A
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100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-561-141 CHG003

8/10/10/09

105

0.00



Pick Kit

Packaging

Memo

0.00

Packaging

10-7-8sf

110

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

8/10/10/09

XC

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:			WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP		Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
				Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 60414

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Page 2

Item ID: D350-561-141

Accept

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Item Name: Single Cargo Mirror Assembly

Start Date: 7/07/10 Start Qty: 2.00

Cust Item ID:

Required Date: 7/14/10 Req'd Qty: 2.00

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	Packaging	0.00							
	Packaging								
	Packaging								
	Memo	0.00							
	Identify and pack for shipping as per PPP D350-561-141								
130	QC21- Final Inspection - Work Order Release	0.00							
	QC								
	Quality Control								

PPP 60415
Reuc (1x)

10-7-95

10-7-12

MF
10-7-9

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:			WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP		Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
				Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

July 7, 2010 11:12:53 AM

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/07/10**Required Date:** 7/14/10

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP A 07.07.26 new issue (DSI9379) EC verified by:JLM IPP rev
B 10.02.16 per ecn 10-523 EC verified by: DD IPP Rev:C add pick kit
DD 10.03.15 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2011-101 5 FL 6" Mirror		Manufactured	No			105	Each	26.0000	1	2		10-7-8	SP
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST231				26					
				58398				26					
D2012-105 5 FL Arm		Manufactured	No			105	Each	4.0000	1	2		10-7-8	SP
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST229				4					
				57544				4					
D2012-107 5 FL Clevis		Manufactured	No			105	Each	27.0000	1	2		10-7-8	SP
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST004				27					
				40274				9					
				46634				18					
D2012-111 5 FL Bracket		Manufactured	No			105	Each	14.0000	1	2		10-7-8	SP
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST004				14					
				40148				14					

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:			WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP		Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 60414

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/07/10

Required Date: 7/14/10

Start Qty: 2.00

Required Qty: 2.00

D2012-115 Manufactured No 105 Each 55.0000



Bracket, Clevis

1 2
10-7-8 SP

Location Loc Qty Loc Code

ST004 55

25581 55

D2022-101 Manufactured No 105 Each 146.0000



Spacer

2 4
10-7-8 SP

Location Loc Qty Loc Code

ST504 146

50746 46

52325 100

D3629-1 Manufactured No 105 Each 9.0000



Bracket

1 2
10-7-8 SP

Location Loc Qty Loc Code

ST244A 9

48560 9

D3635-1 Manufactured No 105 Each 1.0000



Gasket

1 2
10-7-8 SP

Location Loc Qty Loc Code

ST076 1

52914 1

D3635-3 Manufactured No 105 Each 40.0000



Gasket

2 4
10-7-8 SP

Location Loc Qty Loc Code

ST076 40

56399 40

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Shop Packet Print

Page 2

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 60414



Parent Item: D350-561-141



Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/07/10

Required Date: 7/14/10

Start Qty: 2.00

Required Qty: 2.00

D3646-1
Arm

Manufactured No

105 Each

10.0000



1 2

10-7-8 SP

Location

Loc Qty

Loc Code

ST229

10

58836

10

2

D3646-3
Arm

Manufactured No

105 Each

8.0000



1 2

10-7-8 SP

Location

Loc Qty

Loc Code

ST229

8

52668

3

58837

5

2

D4070-041
Clamp

Manufactured No

105 Each

69.0000



2 4

10-7-8 SP

Location

Loc Qty

Loc Code

ST460

69

56381

69

4

AN3-4A
Bolt

Purchased No

105 Each

1,336.000



3 6

10-7-8 SP (W)

Location

Loc Qty

Loc Code

ST350

1336

104214

207

104291

300

104322

200

104374

200

104625

300

104817

129

6

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Shop Packet Print

Page 3

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 60414



Parent Item: D350-561-141



Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/07/10

Required Date: 7/14/10

Start Qty: 2.00

Required Qty: 2.00

AN3-6A Purchased No

105 Each

317.0000

1 2



Bolt



10-7-8

Location

Loc Qty

Loc Code

ST351

317

113359

117

114941

200

2

AN4-5A

Purchased No

105 Each

307.0000

3 6



Bolt



10-7-8

Location

Loc Qty

Loc Code

ST356

307

114108

13

114330

194

115016

100

6

AN4-10A

Purchased No

105 Each

124.0000

1 2



Bolt



10-7-8

Location

Loc Qty

Loc Code

ST356

124

113422

24

114523

100

2

AN960JD10

NAS1149D0363J Purchased

No

105 Each

0.0000

8 16



Washer



1114884 10-7-8

AN960JD416

NAS1149D0463J Purchased

No

105 Each

16.0000

8 16



Washer



1115000 10-7-8

Location

Loc Qty

Loc Code

ST351

16

108827

16

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Shop Packet Print

Page 4

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:			WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP		Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 60414

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/07/10

Required Date: 7/14/10

Start Qty: 2.00

Required Qty: 2.00

MS21042L3

Purchased No

105 Each

2,835.000

4

8



Nut



10-7-8 sf

Location

Loc Qty

Loc Code

ST300

2835

114523

353

114718

482

114784

2000

8

MS21042L4

Purchased No

105 Each

4,412.000

4

8



Nut



10-7-8 sf 20

Location

Loc Qty

Loc Code

ST300

4400

113422

68

114523

28

114718

304

114784

2000

115108

2000

ST356

12

108145

12

8

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Work Order ID 60414

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Page 1

Item ID: D350-561-141

Accept



Setup Start



Revision ID:

Stop



Item Name: Single Cargo Mirror Assembly

Start Date: 7/07/10 Start Qty: 2.00



Cust Item ID:

Required Date: 7/14/10 Req'd Qty: 2.00



Customer:

Reference:

Run Start



Approvals: Process Plan: CZ

Date: 10/7/17

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

N/A

Rev N/A

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-561-141 CHG003

CZ 10/7/18

REFERENCE ONLY

105

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

110

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

DART SERVICE INSTRUCTION REFERENCE ONLY

TO AMEND INSTALLATION INSTRUCTIONS D350-561 REV. C

REF. CANADIAN STC: SH91-20 ISSUE 2

REF. FAA STC: SH856NE

To reduce vibration, Dart has developed the D350-561-141/-143 Mirror Installations to replace the D350-561-041/-043 Mirror Installations. For customers with D350-561-041/-043 Mirror Installations at CHG 005 or earlier who would like to upgrade their installation, the DSI 9379-011 Upgrade Kit can be obtained from Dart. The components for DSI 9379-011 Kit are as defined in Section 1.0 below.

Customers upgrading their installation from D350-561-041/-043 to D350-561-141/-143 should follow instructions given in Figures 1 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

Customers who are installing a D350-561-141/-143, should refer to Figures 2 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

This service instruction details the D350-561-141/-143 kits at CHANGE 003 or later, which use D4070-041 Clamps (replaces MS21919WDG7 clamps). For -141/-143 kits at earlier change numbers, the DSI-9379-013 Upgrade kit is available to replace the mil-spec clamps with more robust D4070-041 Clamps.

1.0 PARTS LIST

Qty -141	Qty -143	Qty -045	Qty -011	Qty -013	Part Number	Description
X	1				D350-561-141	SINGLE MIRROR INSTALLATION (REPLACES -041)
	X				D350-561-143	DUAL MIRROR INSTALLATION (REPLACES -043)
	1	X			D350-561-045	MIRROR KIT
			X		DSI-9379-011	UPGRADE KIT
				X	DSI-9379-013	UPGRADE KIT
1		1			D2011-101	MIRROR
1					D2012-105	ARM
1					D2012-107	CLEVIS
1					D2012-111	BRACKET
		2			D2012-113	CLAMP
1					D2012-115	BRACKET
2					D2022-101	SPACER
1*		1*			D3014-1	LOCKNUT
1			1		D3629-1	BRACKET
1			1		D3635-1	GASKET
2			2		D3635-3	GASKET
1			1		D3646-1	ARM
1			1		D3646-3	ARM
2			2	2	D4070-041	CLAMP
3			3		AN3-4A	BOLT
1					AN3-6A	BOLT
3			2	2	AN4-5A	BOLT
1					AN4-10A	BOLT
8			6		AN960JD10	WASHER
8			4	4	AN960JD416	WASHER
1*		1*			AN960JD416L	WASHER
4			3		MS21042L3	NUT (OR MS21042-3)
4			2	2	MS21042L4	NUT (OR MS21042-4)

*INCLUDED AS PART OF D2011-101 MIRROR

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-Q-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 10.02.12
CERT. NO.: SH91-20
ISSUE NO.: 2

C	D4070-041 WAS MS21919WDG7	CP	10.02.12
B	MS21919WDG7 WAS MS21929WDG7	DC	07.11.26
A	NEW ISSUE	MB	07.07.10
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. C
MFG. APPR.	NTA	DSI 9379	SHEET 1 OF 5
APPROVED		TITLE	SCALE
DE APPR.		CARGO MIRROR UPDRAGE KIT	NTS
DATE	10.02.12	COPYRIGHT © 2007 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP		Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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